**Math Extra Practice for PSLE**

**Question 1 to 12 (Do Not Use a Calculator)**

**Question 13 to 20 (Calculator is allowed)**

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| **1** | A councillor was instructed to form a square shape with cones.  He placed 5 cones in equal distance on each side.  How many cones did he use altogether? | | | | | |
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|  |  | | **Ans:** | |  | |
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| **2** | Edward was given a long piece of plank.  He had to cut it into 4 equal parts.  If he took 15 min to saw it into two equal parts, how long did he take to saw the plank into 4 equal parts?  Express your answer in hours. | | | | | |
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|  |  | | **Ans:** | | h | |
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| **3** | Three cubes are glued together to make a cuboid as shown below.  The perimeter of the shaded square is 12 cm.  What is the volume of the cuboid? | | | | | |
|  | |  | | **Ans:** | | cm3 | |
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| **4** | The line graph shows the number of laptops sold in a shop in 4 weeks. | | | | | |
|  | What fraction of all the laptops was sold in the 4th week?  Give your answer as a fraction in the simplest form. | | | | | |
|  | **Ans:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | |
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| **5** | In the figure below, not drawn to scale, ABCD is a rhombus.  Line AC is parallel to Line DE. | | | | | |
|  | Find . | | | | | |
|  | A  D  B  E  C  110°  95° | | | | | |
|  |  | | **Ans:** | | ° | |
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| **6** | The net below is folded to form a cube.  What is the missing letter? | | | | | |
|  | F  ?  A  B  B  C  D  E  A | | | | | |
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|  |  | | **Ans:** | |  | |
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| **7** | The figure below is made up of squares.  Shade two more squares so that the figure has a line of symmetry. | | | | | |
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| **8** | Jacob bought *w* pens and 5 erasers for $10.  Each eraser cost 20 cents. | | |
|  | Express the cost of 1 pen in terms of *w*. | | |
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|  |  | **Ans:** | $ |
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| **9** | The pie chart below shows how Albert spends a typical afternoon from  2 p.m. to 6 p.m..  The ratio of time he spends revising his work to reading is 5 : 4.  How much time does he spend revising his work? | | |
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|  |  | **Ans:** | h min |
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| **10** |  | | |
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|  | Refer to the square grid above and fill in the blanks with G, H, I , J or K | | |
|  | (a) Point \_\_\_\_\_\_ is west of point \_\_\_\_. | | |
|  | (b) Point \_\_\_\_ is north-east of point I. | | |
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| **11** | The ratio of the number of women to the number of men in a stadium was 4 : 5.  After a group of men entered the stadium, 40% of the total number of adults at the end was women.  What was the percentage increase in the number of men? | | |
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|  |  | **Ans:** | % |
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| **12** | Josephine bought 15 mangoes and received 4 pears.  She packed them into bags of 3 mangoes and 1 pear.  Each bag of fruits was sold at $1.20 each and the remaining mangoes were sold at $0.70 each.  How much did she receive from the sale of all the fruits? | | |
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|  |  | **Ans:** | $ |
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| **13** | **Question 13 to 20 (You can use a calculator)**  The pattern in the box shows part of a tessellation.  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  •  • |
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|  | (a) Shade the unit shape used.  (b) Using only the given dots, extend the tessellation by drawing three more unit shapes in the space provided in the box. |
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| 14 Kenneth is  as old as his aunt now.  In 3 years’ time, he will be  as old as his aunt.  How old is Kenneth now? | | |
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|  | **Ans:** |  |
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**15**

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| The table below shows the prices for printing an A4-sized photograph in a shop. | | |
| |  |  | | --- | --- | | Number of photographs | Price | | First 10 pieces | $3.55 per piece | | Every additional piece | $2.65 per piece |   Ahmad paid $67.30 to print his photographs.  How many photographs did he print? | | |
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|  | **Ans:** |  |
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| **16**  In the figure below, trapezium EFGH is not drawn to scale.  The area of triangle EFJ is  of the area of a 4-sided figure EFHK.  Find the total area of the shaded parts. | | | | | | | | | |
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|  |  |  |  |  | **Ans:** |  |  |  | **[ 3 ]** |
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**17**

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| LM and NO are two sides of a parallelogram.  (a) Complete the drawing of parallelogram LMNO by drawing the other two sides in the square grid below.  (b) Measure and write down the size of MNO. | | | | | | | | | |
| M   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | L |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   **[ 2 ]** | | | | | | | | | |
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|  |  |  |  |  | **Ans:** | (b) |  |  | **[ 1 ]** |
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| **18**  Kristy travelled at a speed of 75 km/h while Sally travelled at a speed of  50 km/h.  Both of them started at 8.30 a.m. at the same place but in the opposite directions.  After 45 min, Kristy turned back and decided to overtake Sally.  At what time did Kristy overtake Sally? | | | | | | | | | |
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|  |  |  |  |  | **Ans:** |  |  |  | **[ 3 ]** |
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**19**

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| May spent  of her money and an additional $3 on a birthday gift for her friend.  She then spent  of the remaining money less $3 on some books.  She had $25 left.  How much more did she spend on the birthday gift than on books? | | | | | | | | | |
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**20**

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| A tank with a square base of side 60 cm, 80 cm tall, was  filled with water. | | | | | | | | | |
| (a) Find the volume of water in the tank. | | | | | | | | | |
| (b) At 2.20 p.m., Tap A was turned on to drain water out at a rate of 10 litres per minute.  6 minutes later, Tap B was turned on to fill the tank at 12 litres per minute.  Find the volume of water in the tank at 2.30 p.m..  (Give your answers in litres.) | | | | | | | | | |
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